JC04 Rec'd PCT/PTO 15 JUL 2005

PATENT 512100-2046

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Hoffmann et al

U.S. Serial No.

10/533,926

International

Application No.

PCT/EP2003/011529

International

Filing Date

October 17, 2003

For

TRANSMUCOSAL PHARMACEUTICAL

ADMINISTRATION

745 Fifth Avenue

New York, New York 10151

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 11, 2005

William F. Lawrence, Registration No. 28,029
Name of Applicant, Assignee or Registered
Representative

Signature July 11, 2005

Date of Signature

COMMUNICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed for the Examiner's convenience is a copy of

the International Preliminary Examination Report in PCT/EP2003/011529.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP Attorneys for Applicants

Ву

William F. Lawrence Registration No. 28,029 745 Fifth Avenue New York, New York 10151 (212) 588-0800



NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rule 72.2)

From the INTERNAT AL BUREAU

o. Dind apair mater

SCHMIDT, Werner

LTS Lohmann Therapie-Systeme AG

Patentabteilung Postfach 15 25

56605 Andernach ALLEMAGNE Eingang LTS-PAT

2 2. Juni 2005

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Date of mailing (day/month/year)
16 June 2005 (16.06.2005)

Applicant's or agent's file reference

2002/112

PCT/EP2003/011529

International application No.

IMPORTANT NOTIFICATION

International filing date (day/month/year) 17 October 2003 (17.10.2003)

Applicant

LTS LOHMANN THERAPIE-SYSTEME AG et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CA, CN, KR, RU

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AU, BR, EP, IL, IN, JP, MX, NZ, PH, PL, US, ZA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Ellen Moyse

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 89 75

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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anslation Internati	ONAL PRELIMINARY EXAMINATION REPORT		
-	(PCT Article 36 and Rule 70)		
Applicant's or agent's file reference 2002/112	FOR FURTHER ACTION See Notification of Transmittal of Intern Preliminary Examination Report (Form PCT/IPEA		
International application No. PCT/EP2003/011529	International filing date (day/month/year) Priority date (day/month/year) 17 October 2003 (17.10.2003) 08 November 2002 (08.11		
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the interm These ele the the the the or 3. With re prelimin fi	ard to the language, all the elements marked above were available or furnished to this Authority in the language in which national application was filed, unless otherwise indicated under this item. ements were available or furnished to this Authority in the following language
5. The second of	the description, pages the claims, Nos the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** tement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16). teplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Reasoned statement under Article 3 citations and explanations supporting	5(2) with regard to novelty, ing such statement	inventive step or industrial appl	licability;
Statement			
Novelty (N)	Claims	1-12	YES
	Claims		NO NO
Inventive step (IS)	Claims		YES
	Claims	1-12	NO NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

2. Citations and explanations

- The numbering of documents D1-D7 cited in the present report is based on the documents cited in the search report. This numbering will also be used in further proceedings. In particular, unless otherwise stated, the cited passages of the respective documents should be taken into account.
- Novelty and inventive step (PCT Article 33(2) and (3))
- The subject matter of independent claims 1 and 2 is novel since none of the cited documents describes a transmucosal form of administration containing a mixture of a phosphatidyl choline wherein the fatty acid groups are at least 90% saturated.

 In particular, D1 or D5 describes or suggests a transmucosal form of administration containing lecithin or eilecithin (see D1: claims 1 and 20; D5: column 2, line 39, claims 1-2). Standard commercial lecithin normally contains approximately the same amounts of saturated and unsaturated fatty acids. However, neither D1 or D5 nor any of the other documents suggests that the phosphatidyl cholines

employed are hydrated (conversion of the unsaturated fatty acids into saturated fatty acids), or that phosphatidyl cholines containing at least 90% saturated fatty acids are used. The claims are therefore novel over the prior art.

2b) The problem addressed by the present invention can be considered as the following: the provision of a transmucosal form of administration characterised by a low degree of solubility within the oral cavity and a quick and constant release of the agent over a longer period of time.

The solution proposed by the applicant is the use of a phosphatidyl choline in which the fatty acids are at least 90% saturated.

Since there is no evidence that the problem is solved by the above-mentioned phosphatidyl choline, the subject matter of the present application does not involve an inventive step.

In order for an inventive step to be acknowledged, the applicant is requested to **provide evidence** that the desired effects (lower solubility, quick but long release of agent) are based on this technical feature. The mere assertion that this is so is insufficient.

For example, the applicant could show that a phosphatidyl fraction in which the fatty acids are only 80% saturated will not solve the problem, whereas a phosphatidyl fraction in which the fatty acids are 90% saturated will bring about the desired effects in the transmucosal form of administration.

The applicant's attention is drawn here to the fact that it also appears that the use of a copolymer of the maleic acid with an alkyl vinyl ether is an essential feature for solving the problem.

In the absence of evidence for the desired effects, it is not possible to acknowledge an inventive step (problem not solved) and the proposed solution is considered an obvious alternative (e.g. with respect to D1 or D5), because it appears that it is only a routine task that a person skilled in the art would carry out so as to differentiate it from the prior art.

For the regional phase:

- Details relating to the subject matter of the invention (e.g. further details concerning the advantages of the invention or the problem of interest) but which have no basis in the original documents, can only be mentioned in the letter of response, but cannot be included in the application (PCT Article 34(2)(b)).
- The applicant's attention is drawn to the fact that the application may not be amended in such a way that its subject matter goes beyond the content of the application as originally filed.

So as to facilitate the examination of amended application documents with respect to PCT Article 34(2)(b), the applicant is requested to indicate clearly the amendments made, whether additions, replacements or deletions, and to indicate the

passages in the originally filed application on which these amendments are based (see also PCT Rule 66.8(a)).

If desired, these details can be given in handwritten form on copies of the respective parts of the original application.